Quick Start Guide

NXD-1000Vi 10" Modero Widescreen Touch Panel w/Full Duplex Intercom

Overview

These Color Video (CV) panels display NTSC/PAL/SECAM video formats within variable sized windows. They include a built-in microphone, speaker, audio/headphone connector, and 2 NetLinx programmable pushbuttons. Panel to panel communication is enabled via a full duplex VoIP intercom interface.

Each panel is sold only as part of a NXD-1000Vi Kit which includes both a panel and an NXA-AVB/ETHERNET Audio/Video Breakout Box (**FG2254-10**).

For more detailed installation, configuration, programming, file transfer, and operating instructions, refer to the *NXD-1000Vi Touch Panels* operation/reference guide, available on-line at **www.amx.com**.

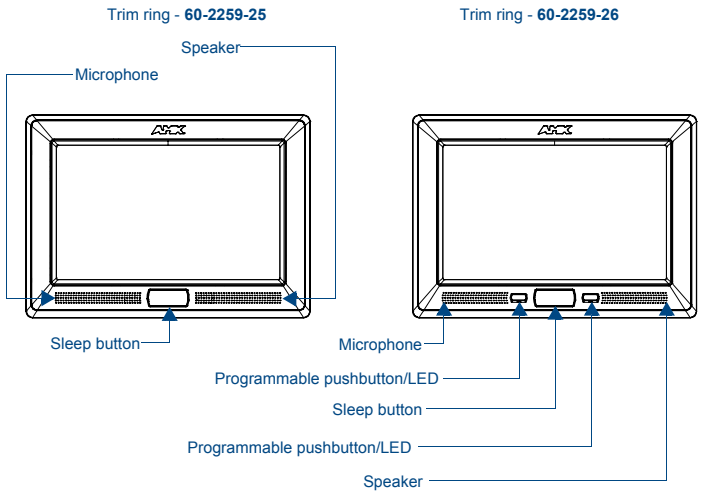

FIG. 1 10" Modero Widescreen Video Touch Panels

Specifications

NXD-1000Vi Specifications (FG2259-04)	
Dimensions (HWD): NXD-1000Vi CB-TP10 (**FG036-10**)	• Faceplate included: 7.96" x 11.16" x 3.32" (20.22 cm x 28.34 cm x 8.43 cm) • Conduit/wallbox: 5.47" x 7.23" x 3.40" (13.90 cm x 18.40 cm x 8.64 cm) (***optional***)
Power Requirements (stand-alone):	• Constant current draw: 1.3 A @ 12 VDC • Startup current draw: 1.3 A @ 12 VDC
Minimum power supply required:	• PSN2.8 Power Supply (**FG423-17**)
Memory:	• 64 MB SDRAM • 128 MB Compact Flash (upgradable to 1 GB - factory programmed)
Weight:	• 2.65 lbs (1.20 kg)
Certifications:	• FCC Part 15 Class B and CE • IEC60950
Panel LCD Parameters:	• Aspect ratio: 16 x 9 • Brightness (luminance): 350 cd/m2 • Channel transparency: 8-bit Alpha blending • Contrast ratio: 250:1 • Display colors: 256 thousand colors (18-bit color depth) • Dot/pixel pitch: 0.28 mm • Panel type: TFT Color Active-Matrix • Screen Resolution: 800 x 480 pixels (HV) @ 60 Hz frame frequency • Video format: NTSC, PAL, and SECAM
Viewing Angle:	• 95° total viewing angle • Vertical: + 45° (up from center) and -65° (down from center)
IR Reception Angle:	• Horizontal: ± 50° (left and right from center) • Vertical: ± 30° (up and down from center)

NXD-1000Vi Specifications (Cont.)	
Front Panel:	• Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness • Motion Sensor (PIR): Proximity Infrared Detector to wake the panel when panel is approached • IR Receiver: 38 KHz and 455 KHz AMX IR frequencies
Operating /Storage Environments:	• Operating Temperature: 0° C (32° F) to 40° C (104° F) • Operating Humidity: 20% - 85% RH • Storage Temperature: -20° C (-4° F) to 60° C (140° F) • Storage Humidity: 5% - 85% RH
Included Accessories:	• Installation Kit for NXD-1000Vi panels (**KA2259-02**): - 2-pin 3.5 mm mini-Phoenix connector (**41-5025**) - Three Drywall clips (62-5924-05) and #6 - sheet metal screws (**80-0192**) - Four Phillips-head screws (#4-40 x 0.250 Black) (**80-0112**) • NXA-AVB/ETHERNET Breakout Box (**FG2254-10**) - Provides video/audio distribution to the A/V panel over CAT5 cable (up to 200'/60.96 m) and accepts either Composite or S-Video • Trim Ring with button openings (**60-2259-05**) • Trim Ring without button openings (**60-2259-04**)

Panel Connectors

FIG. 2 shows the connectors located on the NXD-1000Vi Modero Video panels. The Audio/Video RJ-45 connector provides differential audio/video signals between the touch panel and the NXA-AVB/ETHERNET. This connector routes Composite video, Stereo (left/right) audio, and microphone audio.

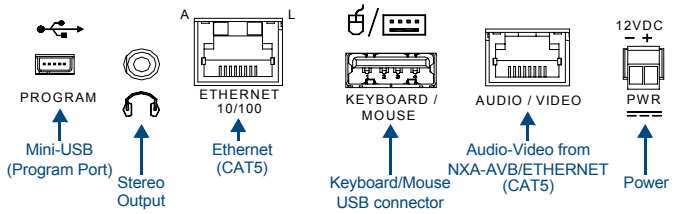

FIG. 2 Connector layout on the NXD-1000Vi Touch Panels

Install the NXA-AVB/ETHERNET Breakout Box

Consult the *NXA-AVB/ETHERNET Modero Ethernet/Video Breakout Box* quick start guide for required installation methods.

Methods for Installing the NXD-1000Vi

Consult the *NXD-1000Vi Touch Panels* operation/reference guide for installation methodologies and their necessary dimensions.

Wiring Guidelines for the NXD-1000Vi Panels

NXD-1000Vi panels use a 12 VDC-compliant power supply to provide power to the panel via the 2-pin 3.5 mm mini-Phoenix PWR connector. Use the previously provided power requirement information to determine the power draw.

The incoming PWR and GND wires from the power supply must be connected to the corresponding locations within the PWR connector.

Note: *These units should only have one source of incoming power. Using more than one source of power to the touch panel can result in damage to the internal components and a possible burn out. Apply power to the panels only after installation is complete.*

Preparing captive wires

You will need a wire stripper and flat-blade screwdriver to prepare and connect the captive wires.

Note: *Never pre-tin wires for compression-type connections.*

1. Strip 0.25 inch (6.35 mm) of insulation off all wires.
2. Insert each wire into the appropriate opening on the connector (according to the wiring diagrams and connector types described in this section).
3. Tighten the screws to secure the wire in the connector. Do not tighten the screws excessively; doing so may strip the threads and damage the connector.

Wiring a power connection

The incoming PWR and GND wires from the external source must be connected to their corresponding locations on the connector.

1. Insert the PWR and GND wires on the terminal end of the 2-pin 3.5 mm mini-Phoenix cable. ***Match the wiring locations of the +/- on both the power supply and the terminal connector.***
2. Tighten the clamp to secure the two wires. *Do not tighten the screws excessively; doing so may strip the threads and damage the connector.*
3. Verify the connection of the 2-pin 3.5 mm mini-Phoenix to the external 12 VDC-compliant power supply.

Setup Pages

The panel is equipped with setup pages that allow you to set and configure various features on the panel. Consult the *NXD-1000Vi Touch Panels* operation/reference guide for detailed information on the *Setup* pages.

Accessing the Setup and Protected Setup Pages

1. Press the grey Front Setup Access button for **3 seconds** to open the Setup page.
2. Press the Protected Setup button. This invokes a keypad for entry of the password to allow access to the Protected Setup page. Enter **1988** (the default password), and press **Done** to proceed.

Note: *Clearing Password #5, from the initial Password Setup page, removes the need for you to enter the default password before accessing the Protected Setup page.*

Setting the Panel's Device Number

In the *Protected Setup* page:

1. Press the *Device Number* field to open the Device Number keypad. Enter a unique Device Number assignment for the panel, and press **Done** to return to the *Protected Setup* page.
2. Press **Reboot** to reboot the panel, and apply the new Device Number.

Configuring the Wireless Settings

Consult the *NXD-1000Vi Touch Panels* operation/reference guide for configuring the wireless card communication and security settings.

- Configuring the Panel's Wireless IP Settings
- Wireless communication using a DHCP Address
- Configuring the wireless card for secured access to the WAP

Master Connection

The panel requires you establish the type of connection you want made between it and your master. In the *Protected Setup* page:

1. Select *System Settings*
2. Select *Type* to toggle between *USB* and *Ethernet*.
3. When using *Ethernet*, press the listed *Mode* to toggle through the available connection modes:

Connection Modes

Mode	Description	Procedures
Auto	The device connects to the first master that responds. This setting requires you set the System Number.	Setting the System Number: 1. Select the System Number to open the keypad. 2. Set your System Number select Done.
URL	The device connects to the specific IP of a master via a TCP connection. This setting requires you set the Master's IP.	Setting the Master IP: 1. Select the Master IP number to the keyboard. 2. Set your Master IP and select Done.
Listen	The device "listens" for the master to initiate contact. This setting requires you provide the master with the device's IP.	Confirm device IP is on the Master URL list. You can set the Host Name on the device and use it to locate the device on the master. Host Name is particularly useful in the DHCP scenario where the IP address can change.

4. Select the *Master Port Number* to open the keypad and change this value. The default setting for the port is *1319*.
5. Set your Master Port and select **Done**.

If you have enabled password security on your master you need to set the username and password within the device.

6. Select the blank field *Username* to open the keyboard.
7. Set your Username and select **Done**.
8. Select the blank field *Password* to open the keyboard.
9. Set your Password and select **Done**.
10. Press the **Back** button to return to the *Protected Setup* page.
11. Press the **Reboot** button to reboot device and confirm changes.

Touch Panel Calibration

In the *Protected Setup* page, follow these steps:

1. Select **Calibrate**.
2. Touch each target on the screen as they appear. Once calibrated the panel confirms and instructs you to touch the screen to continue.

Panel Intercom Configuration

Incorporating an intercom capable panel into your NetLinx system

Download the module for the intercom panel from **www.amx.com**, and include it in your NetLinx project file. For searching purposes, the module *manufacturer* is **AMX** and the *model* is **Intercom**.

Note: *The intercom module will only work with AMX intercom capable panels.*

Advanced Setup

The intercom's advanced setup pages are accessed through the intercom setup pages. The advanced pages allow you to set the panel intercom to be monitored, to monitor other intercom panels, and to name the panel. It is important to name the intercom panel, the name is displayed in other panels' intercom call directory pages.

Consult the *NXD-1000Vi Touch Panels* operation/reference guide for more intercom setup features.

1. Select the **Setup** button on your intercom page.
2. On the intercom setup page, press **Advanced Setup**. This launches the password numeric keypad.
3. Enter the password and press **Done**. The default password is *Password 4* of the panel's firmware *Password Setup*.

Naming a panel

In the intercom *Advanced Setup* page:

1. Press in the area under *Panel Name*. This launches an on screen keyboard.
2. Type the name of the panel and press **Done**. This is the name that is displayed in other panels' intercom call directory pages.
3. Press **Back** to return to the intercom setup pages.
4. Press **Exit** when you are finished.

Note: *The Panel Name is also the G4 Web Control Name and can be set via the panel's firmware pages.*

Related Documents

- *NXD-1000Vi 10" Widescreen Touch Panel* operation/reference guide
- *VisualArchitect* operation/reference guide
- *G4 PanelBuilder* operation/reference guide
- *TPDesign4 Touch Panel Design Program* operation/reference guide

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3000 RESEARCH DRIVE, RICHARDSON, TX 75082 • 800.222.0193 • fax 469.624.7153 • technical support 800.932.6993 • www.amx.com